1646

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/488,728

DATE: 05/16/2001 TIME: 16:07:03

Input Set : N:\Crf3\RULE60\09488728.txt
Output Set: N:\CRF3\05162001\1488728.raw

## SEQUENCE LISTING

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4 (1) GENERAL INFORMATION:
            (i) APPLICANT: Troutt, Anthony
           (ii) TITLE OF INVENTION: Method of Regulating Nitric Oxide Production
     6
     8
          (iii) NUMBER OF SEQUENCES: 4
    10
           (iv) CORRESPONDENCE ADDRESS:
    12
                  (A) ADDRESSEE: Immunex Corporation
                                                                ENTERED
    13
                  (B) STREET: 51 University Street
    14
                  (C) CITY: Seattle
    15
                  (D) STATE: WA
    16
                  (E) COUNTRY: USA
    17
                  (F) ZIP: 98101
    18
             ( V ) COMPUTER READABLE FORM:
    20
                  (A) MEDIUM TYPE: Floppy disk
    2.1
                  (B) COMPUTER: Apple PowerMacintosh
                  (C) OPERATING SYSTEM: Apple Operating System 7.5.5
    22
                  (D) SOFTWARE: Microsoft Word for PowerMacintosh, Version 6.0.1
     23
     24
            (vi) CURRENT APPLICATION DATA:
     26
                  (A) APPLICATION NUMBER: US/09/488,728
C--> 27
                  (B) FILING DATE: 20-Jan-2000
C--> 28
                   (C) CLASSIFICATION:
     35
           (vii) PRIOR APPLICATION DATA:
     30
                   (A) APPLICATION NUMBER: US/09/978,773
     31
                   (B) FILING DATE: 26-NOV-1997
     32
                   (A) APPLICATION NUMBER: USSN 60/052,525
     33
                   (B) FILING DATE: 27 NOVEMBER 1996
     34
          (viii) ATTORNEY/AGENT INFORMATION:
     37
                   (A) NAME: Perkins, Patricia Anne
     38
                   (B) REGISTRATION NUMBER: 34,693
     39
                   (C) REFERENCE/DOCKET NUMBER: 2623-A
     40
             (ix) TELECOMMUNICATION INFORMATION:
     42
                   (A) TELEPHONE: (206)587-0430
     43
                   (B) TELEFAX: (206)
     44
        (2) INFORMATION FOR SEQ ID NO: 1:
     47
              (i) SEQUENCE CHARACTERISTICS:
      49
                   (A) LENGTH: 3288 base pairs
      50
                   (B) TYPE: nucleic acid
      51
                   (C) STRANDEDNESS: single
      52
                   (D) TOPOLOGY: linear
      53
             (ii) MOLECULE TYPE: cDNA to mRNA
      55
            (iii) HYPOTHETICAL: NO
      57
             (iv) ANTI-SENSE: NO
      59
             (vi) ORIGINAL SOURCE:
      61
                    (A) ORGANISM: Mouse
      62
            (Vii) IMMEDIATE SOURCE:
      65
                    (B) CLONE: IL-17 receptor
      66
             (ix) FEATURE:
      68
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DATE: 05/16/2001 TIME: 16:07:03

69 (A) NAME/KEY: CDS	
70 (B) LOCATION: 1212712	
73 (XI) SEQUENCE DESCRIPTION: SEQ ID NO: 1:	60
75 GTCGACTGGA ACGAGACGAC CTGCTGCCGA CGAGCGCCAG TCCTCGGCCG GGAAAGCCAT	120
77 CCCGGCCCT CGCTGTCGCG CGGAGCCAGC TGCGAGCGCT CCGCGACCGG GCCGAGGGCT	168
79 ATG GCG ATT CGG CGC TGC TGG CCA CGG GTC CCC GGG CCC GCG CTG	100
80 Met Ala Ile Arg Arg Cys Trp Pro Arg Val Val Pro Gly Pro Ala Leu	
81 1 5 10 15 15 15 16 17 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	216
83 GGA TGG CTG CTG CTG CTG AAC GTT CTG GCC CCG GGC CGC GCC TCC	210
84 Gly Trp Leu Leu Leu Leu Asn Val Leu Ala Pro Gly Arg Ala Ser	
85 20 25 30 CMC CMC CMC CMC CMC CMC CMC CMC CMC CM	264
87 CCG CGC CTC CTC GAC TTC CCG GCT CCG GTC TGC GCG CAG GAG GGG CTG	204
88 Pro Arg Leu Leu Asp Phe Pro Ala Pro Val Cys Ala Gln Glu Gly Leu 45	
QU 17 TV :	312
91 AGC TGC AGA GTC AAG AAT AGT ACT TGT CTG GAT GAC AGC TGG ATC CAC	312
92 Ser Cys Arg Val Lys Asn Ser Thr Cys Leu Asp Asp Ser Trp Ile His	
93 50 55 60 TABLE TO THE TABLE AND AND ADD THE TABLE AND COUNTY	360
95 CCC AAA AAC CTG ACC CCG TCT TCC CCA AAA AAC ATC TAT ATC AAT CTT	300
96 Pro Lys Asn Leu Thr Pro Ser Ser Pro Lys Asn Ile Tyr Ile Asn Leu	
07 65 /0 /3	408
99 AGT GTT TCC TCT ACC CAG CAC GGA GAA TTA GTC CCT GTG TTG CAT GTT	
100 Ser Val Ser Ser Thr Gln His Gly Glu Leu Val Pro Val Leu His Val	
101	456
103 GAG TGG ACC CTG CAG ACA GAT GCC AGC ATC CTG TAC CTC GAG GGT GCA	200
104 Glu Trp Thr Leu Gln Thr Asp Ala Ser Ile Leu Tyr Leu Glu Gly Ala	
100	. 504
107 GAG CTG TCC GTC CAG CTG AAC ACC AAT GAG CGG CTG TGT GTC AAG	
108 Glu Leu Ser Val Leu Gln Leu Asn Thr Asn Glu Arg Leu Cys Val Lys	
	552
111 TTC CAG TTT CTG TCC ATG CTG CAG CAT CAC CGT AAG CGG TGG CGG TTT	_
112 Phe Gln Phe Leu Ser Met Leu Gln His His Arg Lys Arg Trp Arg Phe	
113 130	600
115 TCC TTC AGC CAC TTT GTG GTA GAT CCT GGC CAG GAG TAT GAA GTG ACT	
116 Ser Phe Ser His Phe Val Val Asp Pro Gly Gln Glu Tyr Glu Val Thr	
117 145 150 155 160 119 GTT CAC CAC CTG CCG AAG CCC ATC CCT GAT GGG GAC CCA AAC CAC AAA	648
119 GTT CAC CAC CTG CCG AAG CCC AIC CCI GAI GGG GHO GAI LIST 120 Val His His Leu Pro Lys Pro Ile Pro Asp Gly Asp. Pro Asn His Lys	
170	
121 165 170 173 123 TCC AAG ATC ATC TTT GTG CCT GAC TGT GAG GAC AGC AAG ATG AAG ATG	696
123 TCC AAG ATC ATC ITT GIG CCT GAC TOT GIG SHE SHE LYS MET LYS MET LYS ITE ITE THE VAL Pro Asp Cys Glu Asp Ser Lys Met Lys Met	
105 190	
125 180 185 127 ACT ACC TCA TGC GTG AGC TCA GGC AGC CTT TGG GAT CCC AAC ATC ACT	744
128 Thr Thr Ser Cys Val Ser Ser Gly Ser Leu Trp Asp Pro Asn Ile Thr	
129 195 200 203 131 GTG GAG ACC TTG GAC ACA CAG CAT CTG CGA GTG GAC TTC ACC CTG TGG	792
131 GTG GAG ACC TIG GAC ACA CAG CAT GTG GAG ACC TIG GAG ACC TIG GAC ACA CAG CAT GTG GAG ACC TIG GAG ACC TIG GAC ACC TIG GAG AC	
133 210 215 135 AAT GAA TCC ACC CCC TAC CAG GTC CTG GAA AGT TTC TCC GAC TCA	840
136 Asn Glu Ser Thr Pro Tyr Gln Val Leu Leu Glu Ser Phe Ser Asp Ser	
TOO WOLL OLD DEL THE LEG TIT OFF THE FEET	

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137 225 270 280 280 280 280 280 280 280 280 280 28	1	27	225					230					235					240	
140   Glu Ash His Ser Cys   Phe Asp Val Val Lys Gln Ile   Phe Ala   Pro Arg   Arg   141   Arg   245   250   255   256   246   245   250   255   256   270   255   260   270	1	20	223 CAC	አአሮ	CAC	ΔGC	TGC		GAT	GTC	СТТ	AAA		ATA	ттт	GCG	CCC		888
141	1	110	Clu	Agn	His	Ser	Cvs	Phe	Asp	Val	Val	Lvs	Gln	Ile	Phe	Ala	Pro	Arg	
143   CAA GAA GAA GAA TTC   CAT			GIU	ASII	1115	DCI		1 110.	1105	,								_	
144   Gln   Glu   Glu   Phe   His   Gln   Arg   Ala   Arg   Arg			CAA	GAA	GAA	TTC		CAG	CGA	GCT	AAT	GTC	ACA	TTC	ACT	CTA	AGC	AAG	936
145	1	144	Gln	Glu	Glu	Phe	His	Gln	Arq	Ala	Asn	Val	Thr	Phe	Thr	Leu	Ser	Lys	
147   TTT CAC TGG   TGC   TGC   CAT   CAC   CAC   GTC   CAG   GTC   CAG   GTC   CAG   CCC   TTC   TTC   AGC   CAG   CAG   CAG   GTC   CAG   CA			0111	Olu					5							270			,
148			ጥጥጥ	CAC	TGG		TGC	CAT	CAC	CAC	GTG	CAG	GTC	CAG	CCC	TTC	TTC	AGC	984
149	1	148	Phe	His	Trp	Cvs	Cys	His	His	His	Val	Gln	Val	Gln	Pro	Phe	Phe	Ser	
151   AGC   TGC   CTA   AAT   GAC   TGT   TTG   AGA   CAC   GTG   CTG   CTG   CCC   CTGC   CCC   CTGC   C						- 1	-												
152   Ser Cys   Leu   Asn   Asp   Cys   Leu   Arg   His   Ala   Val   Thr   Val   Pro   Cys   Pro   153   290   295   295   300	1	L51	AGC	TGC	CTA	AAT	GAC	TGT	TTG	AGA	CAC	GCT	GTG	ACT	GTG	CCC	TGC	CCA	1032
155	1	L52	Ser	Cys	Leu	Asn	Asp	Cys	Leu	Arg	His	Ala	Val	Thr	Val	${\tt Pro}$	Cys	Pro	
156   Val   11e   Ser   Ash   Thr   Thr   Val   Pro   Lys   Pro   Val   Ala   Ash   Tyr   Tile   Pro   320   320   320   325   320							-	_											
156	1	L55	GTA	ATC	TCA	AAT	ACC	ACA	GTT	CCC	AAG	CCA	GTT	GCA	GAC	TAC	ATT	CCC	1080
157   305	1	L56	Val	Ile	Ser	Asn	Thr	Thr	Val	Pro	Lys	Pro	Val	Ala	Asp	Tyr	Ile	Pro	
160   Leu   Trp   Val   Tyr   Gly   Leu   Tle   Thr   Leu   Tle   Ala   Tle   Leu   Leu   Val   Gly   Satisfies   Satisfies																			
161	-	L59	CTG	TGG	GTG	TAT	GGC	CTC	ATC	ACA	CTC	ATC	GCC	ATT	CTG	CTG	GTG	GGA	1128
163 TCT GTC ATC GTG CTG ATC GTG CTG ATC TGT ATC TGT ATG ACC TGG AGG CTT TCT GGC GCC  164 Ser Val Ile Val Leu Ile Ile Cys Met Thr Trp Arg Leu Ser Gly Ala 165 340 345  167 GAT CAA GAG AAA CAT GGT GAT GAC TCC AAA ATC AAT GGC ATC TTG CCC 168 Asp Gln Glu Lys His Gly Asp Asp Ser Lys Ile Asn Gly Ile Leu Pro 169 355  171 GTA GCA GAC CTG ACT CCC CCA CCC CTG AGG CCC AGG AAG GAC TTT TTG CCC 1224  172 Val Ala Asp Leu Thr Pro Pro Pro Pro Leu Arg Pro Arg Lys Val Trp Ile 173 370  175 GTC TAC TCG GCC GAC CAC CCC CTG TAT GTG GAG GTG GTG TTG TTG CCC 176 Val Tyr Ser Ala Asp His Pro Leu Tyr Val Glu Val Val Val Val Uys Phe 177 385  180 Ala Gln Phe Leu Ile Thr Ala Cys Gly Thrr Glu Val Ala Leu Lys Phe 181  183 CTG GAA GAG CAG GTT ATC TCT GAG GTG GTG GTG GTG AGC CTC 186 Arg Gln Glu Glu Val Ile Ser Glu Val Glu Val Ala Leu Asp Leu 181  183 CTG GAA GAG CAG GTT ATC TCT GAG GTG GTG GTG GTG AGC 186 Arg Gln Lys Gln Glu Met Val Glu Ser Asn Ser Lys Ile Ile Leu 187  188 CTG GAA AAC CAG GAG ATG GTG GAG ATG GTG GAG GTG GTG AGC 188 Arg Gln Lys Gln Glu Met Val Glu Ser Asn Ser Lys Ile Ile Leu 189 435  191 TGT TCC CGA GAG CAG CTA GAG CAG AAG ATG GTG GAG GTG GTG ATC 192 Cys Ser Arg Gly Thr Gln Ala Lys Trp Lys Ala Ile Leu Gly Trp Ala 191 TGT TCC CGA GAG CAG CTA CAG CTA GAC CAC CAC CAC CAC CAC CAC CAC CAC CA	-	L60	Leu	Trp	Val	Tyr	Gly	Leu	Ile	Thr	Leu		Ala	Ile	Leu	Leu		Gly	
164   Ser   Val   11e   Val   Leu   11e   11e   Cys   Met   Thr   Trp   Arg   Leu   Ser   Gly   Ala   165   340   345																			4486
165	-	L63	TCT	GTC	ATC	GTG	CTG	ATC	ATC	TGT	ATG	ACC	TGG	AGG	CTT	TCT	GGC	GCC	1176
167 GAT CAA GAG AAA CAT GGT GAT GAC TCC AAA ATC AAT GGC ATC TTG CCC  168 Asp Gln Glu Lys His Gly Asp Asp Ser Lys Ile Asn Gly Ile Leu Pro 169	-	L64	Ser	Val	Ile	Val	Leu	Ile	Ile	Cys		Thr	Trp	Arg	Leu		Gly	Ala	
168 ASP Gln Glu Lys His Gly ASP ASP Ser Lys Ile ASN Gly Ile Leu Pro 169																			1004
169	-	167	GAT	CAA	GAG	AAA	CAT	GGT	GAT	GAC	TCC	AAA	ATC	AAT	GGC	ATC	TTG	CCC	1224
171 GTA GCA GAC CTG ACT CCC CCA CCC CTG AGG CCC AGG AAG GTC TGG ATC 172 Val Ala Asp Leu Thr Pro Pro Pro Pro Leu Arg Pro Arg Lys Val Trp Ile 173	-	168	Asp	Gln		Lys	His	Gly	Asp		Ser	Lys	IIe	Asn		тте	Leu	Pro	
172											~~~		000	100		ama.	maa	3 m.C	1070
173	-	171	GTA	GCA	GAC	CTG	ACT	CCC	CCA	CCC	CTG	AGG	CCC	AGG	AAG	GTC	TGG	ATC	12/2
175 GTC TAC TCG GCC GAC CAC CCC CTC TAT GTG GAG GTG GTC CTA AAG TTC 176 Val Tyr Ser Ala Asp His Pro Leu Tyr Val Glu Val Val Leu Lys Phe 177 385			Val		Asp	Leu	Thr	Pro		Pro	Leu	Arg	Pro		ьуs	val	ттр	тте	
176 Val Tyr Ser Ala Asp His Pro Leu Tyr Val Glu Val Val Leu Lys Phe 177 385							~- ~			ama	m a m	ama	CAC		CMC	CITE A	አአ <i>ሮ</i>	mmC	1320
177       385       390       395       400         179       GCC       CAG       TTC       CTG       ATC       ACT       GCC       TGT       GGC       ACT       GAA       GTA       GCC       CTT       GAA       CTG       GAC       CTC       1368         180       Ala       Gln       Phe       Leu       11e       Thr       Ala       Cys       Gly       Thr       Glu       Val       Ala       Leu       Asp       Leu         181	-	175	GTC	TAC	TCG	GCC	GAC	CAC	CCC	CTC	TAT	GTG	GAG	UTG	GIC	CTA	AAG	Dho	. 1320
179 GCC CAG TTC CTG ATC ACT GCC TGT GGC ACT GAA GTA GCC CTT GAC CTC 180 Ala Gln Phe Leu Ile Thr Ala Cys Gly Thr Glu Val Ala Leu Asp Leu 181				Tyr	ser	АТа	Asp		Pro	ьeu	туг	vaı		vaı	Val	Leu	цуз		
180       Ala       Gln       Phe       Leu       Ile       Thr       Ala       Cys       Gly       Thr       Glu       Val       Ala       Leu       Asp       Leu         181       -       -       405       -       -       410       -       -       415       -         183       CTG       GAA       GAG       CAG       GTT       ATC       TCT       GAG       GTG       GGT       ATC       TGG       GTG       GGG       GTC       ATG       ACC       TGG       GGC       AGC       1416         184       Leu       Glu       Glu       Gl       Val       Ile       Ser       Glu       Val       GU       Trp       Val       Ser         185       -       -       420       -       -       425       -       -       430       -       -       -       430       -       -       -       440       -       -       -       430       -       -       -       446       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -				G 3 G	mma	ama	3 m.c		CCC	mcm	ccc	х стт		CTA	GCC	СФФ	GAC		1368
181       405       410       415         183       CTG       GAA       GAG       CAG       GTT       ATC       TCT       GAG       GTG       GGG       GTC       ATG       ACC       TGG       GTG       AGC       1416         184       Leu       Glu       Glu       Glu       Val       Ile       Ser       GIu       Val       Gly       Val       Met       TTP       Val       Ser         185       420       Cac       ATG       GIu       Ser       GIu       Val       Gly       Val       Met       TTP       TTP       Val       Ser         187       CGA       CAG       AAG       ATG       GTC       AAC       AAC       AAC       ATC       ATC       ATC       ATC       ATC       CTG       1464         188       Arg       Gln       Lys       GIu       Met       Val       GHu       Ser       ASC       AAC       TCC       AAA       ATC       ATC       ATC       ATC       ATC       ATC       ATC       ATC       CTG       GCT       GCT       GCT       TTG       GCT       GCT       1512       1512       1512       1512		1/9	GCC	CAG	TTC	CTG	ATC	ACT	712	Cra	C1 17	Thr	GAA	Val	Δla	T.011	Asn	T.e.II	1300
183 CTG GAA GAG CAG GTT ATC TCT GAG GTG GGG GTC ATG ACC TGG GTG AGC  184 Leu Glu Glu Gln Val Ile Ser Glu Val Gly Val Met Thr Trp Val Ser  185			Ата	GIN	Pne	ьeu		THE	нта	Cys	GIY		GIU	vuı	ALU	БСи		ЦСИ	
184 Leu Glu Glu Glu Glu Glu Val Ile Ser Glu Val Gly Val Met Thr Trp Val Ser         185		103 TOT	CmC	CAA	CAC	CAC		እጥ <b>ር</b>	ጥርጥ	GAG	СтіС		GTC	ATG	ACC	TGG		AGC	1416
185       420       425       430         187       CGA       CAG       AAG       CAG       GAG       ATG       GTG       GAG       AGC       AAC       TCC       AAA       ATC       ATC       ATC       CTG       1464         188       Arg       Gln       Lys       Gln       Glu       Met       Val       Glu       Ser       Asn       Ser       Lys       Ile       Ile       Ile       Leu         189       435       440       440       445       445       445       445       445         191       TGT       TCC       CGA       GGC       AAG       CGA       AAG       GCT       ATC       TTG       GGT       TGG       GCT       1512         192       Cys       Ser       Arg       Gly       Thr       Gln       Ala       Lys       Trp       Lys       Ala       Ile       Leu       GGT       TGG       GCT       1512         193       450       TCT       GT       CTG       CTG       CTG       CTG       CTG       CTG       GGC       ATG       ATG       ATG       ATG       ATG       ATG       ATG       ATG <td< td=""><td>-</td><td>101</td><td>LOU</td><td>Clu</td><td>Clu</td><td>Cln</td><td>Val</td><td>Tla</td><td>Ser</td><td>Glu</td><td>Val</td><td>Glv</td><td>Val</td><td>Met</td><td>Thr</td><td>Trp</td><td>Val</td><td>Ser</td><td></td></td<>	-	101	LOU	Clu	Clu	Cln	Val	Tla	Ser	Glu	Val	Glv	Val	Met	Thr	Trp	Val	Ser	
187 CGA CAG AAG CAG GAG ATG GTG GAG AGC AAC TCC AAA ATC ATC CTG       1464         188 Arg Gln Lys Gln Glu Met Val Glu Ser Asn Ser Lys Ile Ile Ile Leu       116 Ile Leu         189			ьеи	GIU	GIU		VUI	110	OCI	Olu		011	,	1100	~				
188       Arg       Gln       Lys       Gln       Glu       Met       Val       Glu       Ser       Asn       Ser       Lys       Ile       Ile       Ile       Ile       Leu         189       435       435       440       445       445       445       11       11       Ile			CGA	CAG	ΔΔG		GAG	ATG	GTG	GAG		AAC	TCC	AAA	ATC		ATC	CTG	1464
189       435       440       445         191 TGT TCC CGA GGC ACC CAA GCA AAG TGG AAA GCT ATC TTG GGT TGG GCT       1512         192 Cys Ser Arg Gly Thr Gln Ala Lys Trp Lys Ala Ile Leu Gly Trp Ala       450         193 450       455       460         195 GAG CCT GCT GCT GCT CAG CTA CGG TGT GAC CAC TGG AAG CCT GCT GGG GAC       1560         196 Glu Pro Ala Val Gln Leu Arg Cys Asp His Trp Lys Pro Ala Gly Asp       470         197 465       470         199 CTT TTC ACT GCA GCC ATG AAC ATG ATC CTG CCA GAC TTC AAG AGG CCA         200 Leu Phe Thr Ala Ala Met Asn Met Ile Leu Pro Asp Phe Lys Arg Pro		188	Ara	Gln	Tays	Gln	Glu	Met	Val	Glu	Ser	Asn	Ser	Lys	Ile	Ile	Ile	Leu	
191 TGT TCC CGA GGC ACC CAA GCA AAG TGG AAA GCT ATC TTG GGT TGG GCT       1512         192 Cys Ser Arg Gly Thr Gln Ala Lys Trp Lys Ala Ile Leu Gly Trp Ala       450       455       460         195 GAG CCT GCT GCT GTC CAG CTA CGG TGT GAC CAC TGG AAG CCT GCT GGG GAC       1560         196 Glu Pro Ala Val Gln Leu Arg Cys Asp His Trp Lys Pro Ala Gly Asp       470       475       480         199 CTT TTC ACT GCA GCC ATG AAC ATG ATC CTG CCA GAC TTC AAG AGG CCA       1608         200 Leu Phe Thr Ala Ala Met Asn Met Ile Leu Pro Asp Phe Lys Arg Pro       405			1119	OIII		0111	014			440			-	1	445				
192 Cys Ser Arg Gly Thr Gln Ala Lys Trp Lys Ala Ile Leu Gly Trp Ala 193			TGT	TCC		GGC	ACC	CAA									TGG	GCT	1512
193																			
195 GAG CCT GCT GTC CAG CTA CGG TGT GAC CAC TGG AAG CCT GCT GGG GAC 196 Glu Pro Ala Val Gln Leu Arg Cys Asp His Trp Lys Pro Ala Gly Asp 197 465 470 199 CTT TTC ACT GCA GCC ATG AAC ATG ATC CTG CCA GAC TTC AAG AGG CCA 200 Leu Phe Thr Ala Ala Met Asn Met Ile Leu Pro Asp Phe Lys Arg Pro			-10			1				_	-	•				_	_		
196 Glu Pro Ala Val Gln Leu Arg Cys Asp His Trp Lys Pro Ala Gly Asp 197 465 470 475 480 199 CTT TTC ACT GCA GCC ATG AAC ATG ATC CTG CCA GAC TTC AAG AGG CCA 200 Leu Phe Thr Ala Ala Met Asn Met Ile Leu Pro Asp Phe Lys Arg Pro			GAG		GCT	GTC	CAG	CTA	CGG	TGT	GAC	CAC	TGG	AAG	CCT	GCT	GGG	GAC	1560
197 465 470 475 480  199 CTT TTC ACT GCA GCC ATG AAC ATG ATC CTG CCA GAC TTC AAG AGG CCA  200 Leu Phe Thr Ala Ala Met Asn Met Ile Leu Pro Asp Phe Lys Arg Pro																			
199 CTT TTC ACT GCA GCC ATG AAC ATG ATC CTG CCA GAC TTC AAG AGG CCA 200 Leu Phe Thr Ala Ala Met Asn Met Ile Leu Pro Asp Phe Lys Arg Pro		197	465					470					475					480	
200 Leu Phe Thr Ala Ala Met Asn Met Ile Leu Pro Asp Phe Lys Arg Pro		199	CTT	TTC	ACT	GCA	GCC	ATG	AAC	ATG	ATC	CTG	CCA	GAC	TTC	AAG	AGG	CCA	1608
100	:	200	Leu	Phe	Thr	Ala	Ala	Met	Asn	Met	Ile	Leu	Pro	Asp	Phe	Lys	Arg	Pro	

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203	GCC	TGC	TTC	GGC	ACC	TAC	GTT	GTT	TGC	TAC	TTC	AGT	GGC	ATC	TGT	AGT	1656
204	Ala	Cvs	Phe	Gly	Thr	Tyr	Val	Val	Cys	Tyr	Phe	Ser	Gly	110	Cys	Ser	
005				500					505					210			1704
007	GAG	AGG	GAT	GTC	CCC	GAC	CTC	TTC	AAC	ATC	ACC	TCC	AGG	TAC	CCA	CTC	1/04
208	Glu	Arq	Asp	Val	Pro	Asp	Leu	Phe	Asn	Ile	Thr	Ser	ALY	Tyr	Pro	Leu	
~ ~ ~			515					520					343				1752
011	ATG	GAC	AGA	TTT	GAG	GAG	GTT	TAC	TTC	CGG	ATC	CAG	GAC	CTG	GAG	Mot	1/32
212	Met	Asp	Arg	Phe	Glu	Glu	Val	$\mathtt{Tyr}$	Phe	Arg	Ile	GTII	Asp	Leu	GIU	Mec	
212		530					535					340					1800
215	TTT	GAA	CCC	GGC	CGG	ATG	CAC	CAT	GTC	AGA	GAG	CTC	ACA	GGG	Acn	Ven	1000
216	Phe	Glu	Pro	Gly	Arg	Met	His	His	Val	Arg	GIU	Leu	THE	GTY	ASP	560	
017	EAE					550					222						1848
219	TAC	CTG	CAG	AGC	CCT	AGT	GGC	CGG	CAG	CTC	AAG	CAG	712	Val	Len	Ara	2010
220	Tyr	Leu	Gln	Ser	Pro	Ser	Gly	Arg	GÌn	Lеu	Lys	GIU	Ата	Val	575	mrg	
221					565			<b></b>	999	570	mcc	ጥጥረ	GAG	CGŤ		AAC	1896
223	TTC	CAG	GAG	TGG	CAA	ACC	CAG	TGC	CCC	JAC 3	TGG	Dho	Glu	Δra	Glu	Asn	
224	Phe	Gln	Glu		Gln	Thr	GIn	Cys	Pro 585	ASP	пр	FIIC	GIU	590	014		
225				580	a	000	<i>(</i> 17.7	CAM.	202	CCC	ጥሮሮ	СТС	GAT		GAA	GTG	1944
227	CTC	TGC	TTA	GCT	GAT	GGC	CAA	Acn	CTT	Dro	Ser	Leu	Asp	Glu	Glu	Val	
	Leu	Cys		Ala	Asp	GTÀ	GIII	600	Leu	110	DCI		605				
229		~	595	007	CITIC.	CTC	CCA	CCA	GGG	GGA	GGA	ATT			CAG	CAG Gln	1992
231	TTT	GAA	GAC	CCA	CIG	LOU	Dro	Pro	Glv	Glv	Glv	Ile	Val	Lys	Gln	Gln	
	Phe		ASP	PIO	Leu	пеа	615	110	011	0-1	1	620		_			
233	000	610	CTC	ccc	CAA	СТС	CCA	TCT	GAC	GGC	TGC	CTT	GTG	GTA	GAT	GTC	2040
233	Dro	CIG	Val	Δrσ	Glu	Leu	Pro	Ser	Asp	Gly	Cys	Leu	Val	Val	Asp	Val 640	
0 2 7	C 2 E					630					033					0.10	
220	mam	CTIC	AGT	GAG	GAA	GAA	AGT	AGA	ATG	GCA	AAG	CTG	GAC	CCT	CAG	CTA	2088
240	Cvs	Val	Ser	Glu	Glu	Glu	Ser	Arg	Met	Ala	Lys	Leu	Asp	Pro	OIL	ПСи	
0.41					615					650					055	•	0126
0.4.3	maa	CCA	CAG	AGA	GAG	CTA	GTG	GCT	CAC	ACC	CTC	CAA	AGC	ATG	GTO	CTG	2136
244	Trp	Pro	Gln	Arq	Glu	Leu	Val	Ala	His	Thr	Leu	Glr	ser	ricc	. , ,	Leu	
0.4E				660					665					0 / 0			2184
247	003	GCA	GAG	CAG	GTC	CCT	GCA	GCT	CAT	GTG	GTG	GAG	CC3	r CTC	: CAI	CTC	2104
248	Pro	Ala	Glu	Gln	val	Pro	Ala	ı Ala	HIS	Val	. Val	. Giu	LPIC	л пец	HIS	Leu	
240			675	:				680	)				00.	,			2232
251	CCA	GAC	GGC	AGI	' GGA	GCA	GCI	GCC	CAG	CTG	CCC	ATC	ACE mb	A GAG	, Act	AGC Ser	2232
252	Pro	Asp	Gly	ser	Gly	Ala	Ala	ı Ala	GIn	Leu	Pro	) ме	~ T T T T	L GIL	ı ASI	Ser	
		C O O					60-	`				700	,				2280
255	GAG	GCI	TGC	CCC	CTC	CTG	GGG	GTC	CAG	AGG	AAC	AGG	~ T]4	. T.AT	1 (70	C CTC	
256	Glu	Ala	суя	Pro	Leu	ı Leu	GTZ	y val	L GIII	ALG	715	1 561		_ всс	<i>i</i> 0 <i>j</i> .	5 Leu 720	
257	705	•				710	, mm/		CTTC	T TO T			י ככו	ንጥል ል	ATC		2328
259	CCC	GTO	GAC	TCE	A GAT	GAC	TTU	Dra	A CIC	, La <sub>1</sub>	Sei	r Th	r Pro	o Met	t. Me	TCA t Ser	
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261	-			a am/	725	) גרלים	י כאר	r cci	A ACA			G CT	A GA	A AGO	CT	A ATG	2376
263	CCI	: GA(	CA(	CT(	, CAF	ז פפנ ה פונ	, GA. , Act	. GC2	a Arc	Glı	ı Glı	n Lei	u Gl	u Sei	r Le	u Met	
200	-			7/1	ገ				/4:	)				, ,	•		
265	) , ama	1 m/2/	cm/	744. ייחייט יי	- CA(	CAC	; AG	с сто	G AGI	GGZ	A CAG	G CC	C CT	G GA	G AG	C TGG	2424
26	CTC	TU	3 616	3 CIV		, 0,10											

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268 Leu Ser Val Leu Gln Gln Ser Leu Ser Gly Gln Pro Leu Glu Ser Trp	
760	2472
269 755 271 CCG AGG CCA GAG GTC CTC GAG GGC TGC ACA CCC TCT GAG GAG GAG 271 CCG AGG CCA GAG GTC CTC GAG GGC TGC ACA CCC TCT GAG GAG GAG	
271 CCG AGG CCA GAG GIG GIC CIC GAG SOS THE Pro Ser Glu Glu Glu 272 Pro Arg Pro Glu Val Val Leu Glu Gly Cys Thr Pro Ser Glu Glu Glu 780	
	2520
273 770 275 CAG CGG CAG TCG GTG CAG TCG GAC CAG GGC TAC ATC TCC AGG AGC TCC 275 CAG CGG CAG TCG GTG CAG TCG GAC CAG GGC TAC ATC TCC AGG AGC TCC	
275 CAG CAG CAG TCG GIG CAG TCG TCG TCG TCG TCG TCG TCG TCG TCG TC	
	2568
277 785 279 CCG CAG CCC CCC GAG TGG CTC ACG GAG GAG GAA GAG CTA GAA CTG GGT 279 CCG CAG CCC CCC GAG TGG CTC ACG GAG GAG GAA GAG CTA GAA CTG GGT	
279 CCG CAG CCC CCC GAG TGG CTC THOU GIU GIU GIU Leu GIU Leu GIY 280 Pro Gln Pro Pro Glu Trp Leu Thr Glu Glu Glu Glu Leu Gly 815	
201 010	2616
281 GAG CCC GTT GAG TCT CTC TCT CCT GAG GAA CTA CGG AGC CTG AGG AAG	
283 GAG CCC GIT GAG ICT CIC FOT SOLUTION 283 GAG CCC GIT GAG ICT CIC FOT SOLUTION 283 GAG CCC GIT GAG ICT CIC FOT SOLUTION 283 GAG CCC GIT GAG ICT CIC FOT SOLUTION 283 GAG CCC GIT GAG ICT CIC FOT SOLUTION 283 GAG CCC GIT GAG ICT CIC FOT SOLUTION 283 GAG CCC GIT GAG ICT CIC FOT SOLUTION 283 GAG CCC GIT GAG ICT CIC FOT SOLUTION 283 GAG CCC GIT GAG ICT CIC FOT SOLUTION 283 GAG CCC GIT GAG ICT CIC FOT SOLUTION 283 GAG CCC GIT GAG ICT CIC FOT SOLUTION 283 GAG CCC GIT GAG ICT CIC FOT SOLUTION 283 GAG CCC GIT GAG ICT CIC FOT SOLUTION 283 GAG CCC GIT GAG ICT CIC FOT SOLUTION 283 GAG CCC GIT GAG ICT CIC FOT SOLUTION 283 GAG CCC GIT GAG CCC GAG CCC GAG CCC GIT GAG CCC GAC CCC GAG	
	2664
285 620 287 CTC CAG AGG CAG CTT TTC TTC TGG GAG CTC GAG AAG AAC CCT GGC TGG 287 CTC CAG AGG CAG CTT TTC TTC TGG GAG CTC GAG AAG AAC CCT GGC TGG	
287 CTC CAG AGG CAG CIT ITC ITC ITC ITC ITC ITC ITC ITC ITC	
289 835 840 291 AAC AGC TTG GAG CCA CGG AGA CCC CCA GAA GAG CAG AAT CCC TCC	2712
291 AAC AGC TTG GAG CCA CGG AGA CCC ACC CGA GAIL SHO SHO SHO SET 292 Asn Ser Leu Glu Pro Arg Arg Pro Thr Pro Glu Glu Gln Asn Pro Ser	
USS 00V	
293 850 855 000 295 TAG GCCTCCTGAG CCTGCTACTT AAGAGGGTGT ATATTGTACT CTGTGTGTGC 295 TAG GCCTCCTGAG CCTGCTACTT AAGAGGGTGT ATATTGTACT CTGTGTGTGTGT	2765
295 TAG GCCTCCTGAG CCTGCTACTT ARCAGGGTGTGT GTGTGTGTGT GTGTGTGTGT 297 GTGCGTGTGT GTGTGTGTGT GTGTGTGTGTGTGTGTG	2825
297 GTGCGTGTGT GTGTGTGTGTGTGTGTGTGTGTGTGTGT	2885
299 GTGTGTGTAG TGCCCGGCTT AGAAATGTGT TGATGATCTCC TGAAGCCAGG TGTTCAGGGC 301 TGAAGTCCCA GCACTTGGGA ACTGAGACTT GATGATCCC TGAAGCCAGG TGTTCAGGGC	2945
301 TGAAGTCCCA GCACTIGGGA ACTGACACT CATCATGCA GACATCTTGG TACTGATCCC 303 CAGTGTGAAA ACATAGCAAG ACCTCAGAGA AATCAATGCA GACATCTTGG TACTGATCCC	3005
303 CAGTGTGAAA ACATAGCAAG ACCTCAGAGAT INTOGGAGATCT GGTCATCATT GCACAAGAAT 305 TAAACACACC CCTTTCCCTG ATAACCCGAC ATGAGCATCT GGTCATCA ATATTTATTC	30,65
AND GOLD GOOD BECCONON OF TOWN A CONTROL OF THE CON	3125
200 MORA COMA COM A TOTAL A CATTTGGAAT TCAAAAACAA GIIACAIGAC ACAGCCIIIC	3185
311 CCACTAAGAA GCTTAAAATT CGGTAAGGAT GTAAAATTAG CCAGGATGAA TAGAGGGCTG	3245
311 CCACTAAGAA GCTTAAGATT CGGTTATGGTC CGTTCCAGTC GAC 313 CTGCCCTGGC TGCAGAAGAG CAGGTCGTCT CGTTCCAGTC GAC	3288
316 (2) INFORMATION FOR SEQ ID NO: 2:	
A CONTRACT CHADACTEDISTICS:	
318 (1) SEQUENCE CHARACTERISTICS: 319 (A) LENGTH: 864 amino acids	
320 (B) TYPE: amino acid	
321 (D) TOPOLOGY: linear	
323 (ii) MOLECULE TYPE: protein	
205 () GEOMENCE DESCRIPTION: SEO ID NO: 2:	
327 Met Ala Tle Arg Arg Cys Trp Pro Arg Val Val Pro Gly Plo Ara Lea	
117	
328 1 330 Gly Trp Leu Leu Leu Leu Asn Val Leu Ala Pro Gly Arg Ala Ser	
221 20	
333 Pro Arg Leu Leu Asp Phe Pro Ala Pro Val Cys Ala Gin Giu Giy Leu	
224 25 40 45	
334 336 Ser Cys Arg Val Lys Asn Ser Thr Cys Leu Asp Asp Ser Trp Ile His	
227 50	
339 Pro Lys Asn Leu Thr Pro Ser Ser Pro Lys Asn Ile Tyr Ile Asn Leu	
70	
342 Ser Val Ser Ser Thr Gln His Gly Glu Leu Val Pro Val Leu HIS Val	
342 Sel Val Sel Sej 2112 90 95	

VERIFICATION SUMMARY

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